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CLAIMS

1. Metallic conductor that comprises a collected assembly of wires (22), characterized in that conductor (21) assumes a predetermined polygonal cross-section.
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2. Conductor according to Claim 1, in which the polygonal cross-section has at least one straight side.
- 10 3. Conductor according to Claim 1, in which the polygonal cross-section has at least one curved side.
4. Conductor according to any one of Claims 2 to 3, in which the polygonal cross-section has a combination of at least one straight side and one curved side.
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5. Conductor according to Claim 4, in which the polygonal cross-section is a circular sector.
6. Conductor according to any one of the preceding claims, in which the
20 diameter of each wire (22) is less than or equal to 0.61 mm.
7. Conductor according to any one of the preceding claims, in which the conductor (21) is surrounded by a layer of an insulating material.
- 25 8. Conductor according to Claim 7, in which the layer of insulating material is thermoplastic and/or thermosetting, such as polyethylene, polyester, fluorinated polymer, polyolefin, polyamide, polyimide, polyurethane, polyvinyl chloride, thermoplastic elastomer, ethylene-propylene, polychloroprene or silicone rubber, as well as their compounds and derivatives.
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9. Cable that comprises a plurality of conductors (21) according to Claim 1, electrically insulated from one another, and in their turn grouped together by a cabling process under a covering or a common binding element, characterized in that the conductors (21) assume a predetermined polygonal arrangement.
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10. Cable according to Claim 9, in which the predetermined polygonal arrangement includes at least one straight side.

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11. Cable according to Claim 9, in which the predetermined polygonal arrangement includes at least one curved side.
12. Cable according to any one of Claims 10 to 11, in which the predetermined polygonal arrangement includes a combination of at least one straight side and one curved side.
13. Cable according to Claim 9, in which the predetermined polygonal arrangement is a circle.
14. Cable according to Claim 9, in which the predetermined polygonal arrangement is a rectangle.
15. Cable according to any one of Claims 13 to 14, in which the cable (23) comprises conductors (21) of different polygonal cross-sections.
16. Cable according to Claim 9, in which the predetermined polygonal arrangement is surrounded by at least one layer of a protective material.
17. Cable according to Claim 16, in which the layer of protective material is a metallic protective material.
18. Cable according to Claim 16, in which the layer of protective material is a thermoplastic and/or thermosetting polymeric protective material.
19. Cable according to Claim 16, in which the layer of protective material is a textile material applied in the form of a protective belt.
20. Cable according to any one of the Claims 17 to 19, in which the predetermined polygonal arrangement is surrounded by a combination of layers of protective material.
21. Method of manufacture of a metallic conductor (21) according to Claim 1, characterized in that the method comprises at least the stages of:
- Deformation, using a mechanical means of deformation, of a metallic conductor (21) that comprises an assembly of round metallic wires (22) for achieving the predetermined polygonal cross-section, and

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- **Extrusion, using an extrusion means, of the metallic conductor (21) obtained in the preceding operation.**